

Pullman Unit Sash Balances

For New Buildings



Pullman Mfg. Company
Rochester, N. Y.

Read This Guarantee

When EACH SASH is carefully weighed, and our directions are followed for putting them in, we GUARANTEE our Balances to carry the sash perfectly, and we will replace, at our factory, any broken or imperfect ones within a period of 10 YEARS, free of charge.

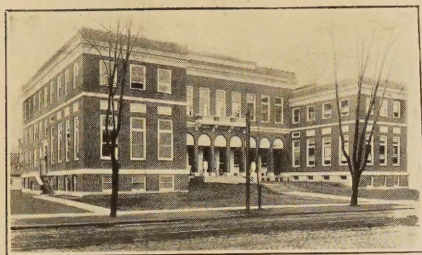
PULLMAN MFG. COMPANY

TERMS

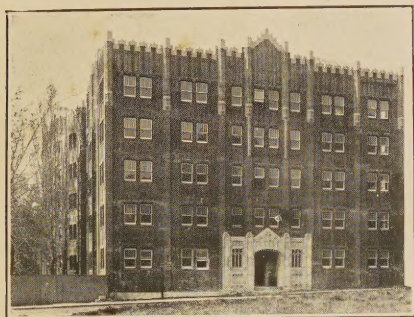
To our regular customers or to those having a satisfactory commercial rating :

30 days net or 2% from date of invoice. F. O. B. Rochester, N. Y.

Parties unknown to us, or without commercial rating, will kindly send remittance with order, or supply us with satisfactory references, or if desired goods will be sent C. O. D.



Rochester Free Dental Dispensary, Rochester, N. Y.
Architects, Gordon & Madden, Contractors, John Luther & Sons Co.



Normandy Apartments, Hartford, Conn.
Architect, Russell F. Barker



Apartments, Greenleaf Avenue, Chicago, Ill.
Architect, L. M. Mitchell



Wilsonia Apartments, Rochester, N. Y.
Architects, Foote & Headley

Catalogue and Blue Prints

of the

PULLMAN Unit Sash Balance

*Now Cheaper Than
Cords and Weights*

The enormous increase in the cost of hardware specialties such as iron weights, pulleys, cords, chains, etc., has reached the point where it is now actually cheaper to equip windows with Pullman Sash Balances than it is to equip them with even the cheap forms of pulleys, cords and weights, and very much cheaper than to use chains, ball bearing pulleys and the better class of equipment.

There has never been any question since Pullman Balances were put on the market over thirty years ago about the superiority of Pullman Balances to cords and weights, for they are far more durable, less subject to getting out of order, much more easily installed and require only a plank-framed window, instead of a win-



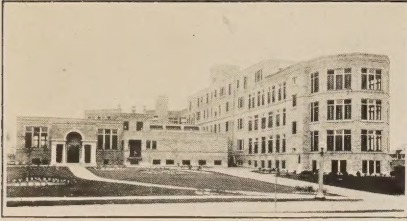
**Alfred Wright Residence,
Rochester, N. Y.**



**S. C. Williams Residence,
Rochester, N. Y.**



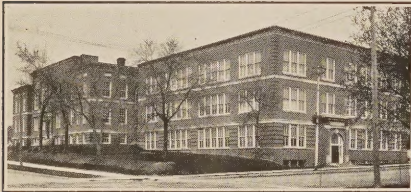
**W. W. Bissell Residence,
Rochester, N. Y.**



Iola Sanitarium, Rochester, N. Y.
Architects, Hutchinson & Cutler



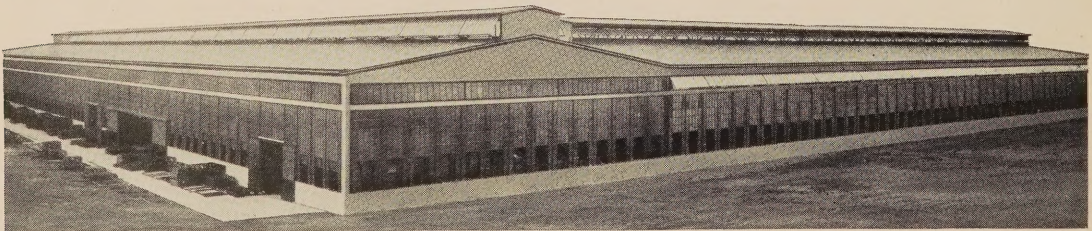
Apartment House, No. 530 Marquette Road, Chicago, Ill.
Architect, C. Frank Jobson



High School, Fergus Falls, Minn.



Apartment House, No. 1218 East Hyde Park Blvd.,
Chicago, Ill.
Architect, A. G. Lund



Trussed-Concrete Steel Co. Factory, Youngstown, O.

dow frame with pockets which cost money to build and take up space.

Pullman Unit Balances have been through the testing laboratories of the National Board of Fire Underwriters and have been approved in every respect for use in Fire Proof Buildings—this is the only Sash Balance which has ever been so approved.

During the past two years the construction of Pullman Unit Balances has been entirely remodeled, while the principle remains the same. All Pullman Balances now regularly used in building construction are made entirely of pressed steel. This construction makes the Balances lighter, stronger, practically noiseless, and eliminates rattling of weights, broken cords and squeaking pulleys.

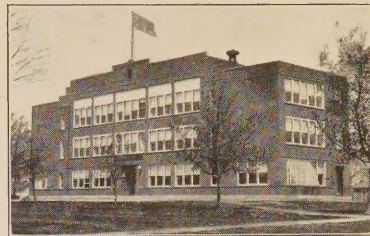
The new construction also provides a complete exterior housing for the moving part of the Balance, so that no matter how tightly it may be forced into a mortise, no pressure can be brought to bear on the moving drum that will interfere in the slightest degree with the smooth running of the Balance.

Pullman Unit Sash Balances should take the place of cords and weights and pulleys in every new building large or small, residence, factory, public building, because they cost less,

last longer, are less liable to get out of order, are fire proof and give a much neater appearance to the window.

As a proof of the above assertions, consider the fact that Pullman Sash Balances have been manufactured and used for over thirty years, that there are today over five million Pullman Balances in daily use. Please bear in mind that the initial price up to the present time of Pullman Sash Balances has been considerably more than cords, weights and pulleys. Is it reasonable to suppose that any device costing more than another could have attained the enormous sale which the Pullman Balance has reached, unless it was superior both in operation and durability?

Remember that the mortises for Pullman Unit Sash Balances may be cut in the frame at the mill, just as mortises for ordinary pulleys are cut, and just as cheaply, and that with this work done at the mill, any carpenter with a screw driver, can install at least twice as many windows with Balances per day as can be fitted with cords and weights.



High School, Dassell, Minn.
Architect, H. E. Walker, Minneapolis



United Shoe Machinery Co. Office, Lynn, Mass.



Tri-State Telephone Co. Office, Minneapolis, Minn.

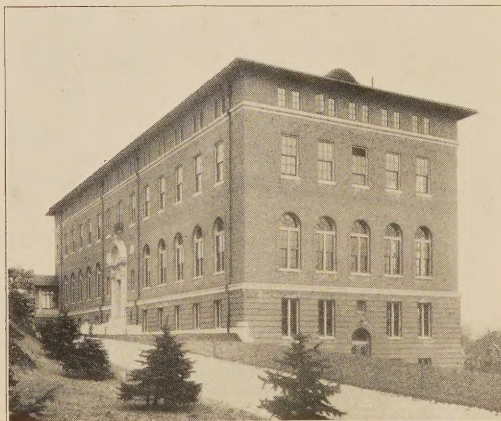
Pullman Mfg. Company ***Rochester, N. Y.***



American Chiclet Company,
Rochester, N. Y.



American Thermos Bottle Co., Norwich, Conn.
Architects, Cudworth & Woodworth

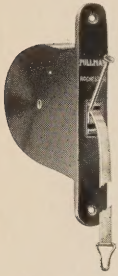


Mt. St. Joseph Academy, Brighton, Mass.

Easy to Install

The UNIT feature makes the installation of the Pullman UNIT Sash Balance very simple and because the face plates are all the same size in a given Unit, mortises for them may be cut at the mill as for ordinary sash pulleys.

Not only are the face plates standardized, but they are designed for the utmost convenience in the cutting of mortises. The mortises for UNIT K for illustration are made complete by boring six 1" holes tangent. Four of these holes are bored through the stile making the mortise for the body of the balance. The two end holes are counterbored to the proper depth to let the face plate in flush. The mortises may also be cut with Pulley Mortising Machine and Router Bit, the same as for ordinary pulleys.



An ordinary nail holds spring while attaching tape to sash—See printed directions.

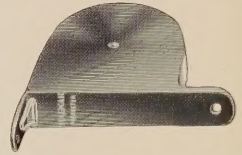
UNIT K being only 1" thick leaves plenty of stock for strength of frame, even when used with $1\frac{3}{8}$ " sash. The ends of the face plate are extra long, so the screw holes are far enough away from the ends of the mortise to prevent the splitting of the wood, while the point of the bit used in counterboring the end of the mortise makes the hole for the screw.

The UNIT Balance is entirely self contained. There are no moving parts on the outside. This prevents the possibility of any of the working parts rubbing on the woodwork, thus interfering with the action of the balance.

It is practically impossible to install the UNIT Balance so it cannot work.

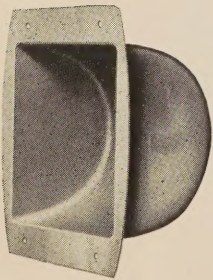
UNIT Balances are made of pressed steel throughout, making them noiseless, smooth running and unbreakable.

UNIT Balances are made both side and top pattern. The top pattern is invaluable in the case of narrow mullions. See blue print.



The Top Pattern Balance is fitted in the head, requiring no space at the side.

Metal Housing

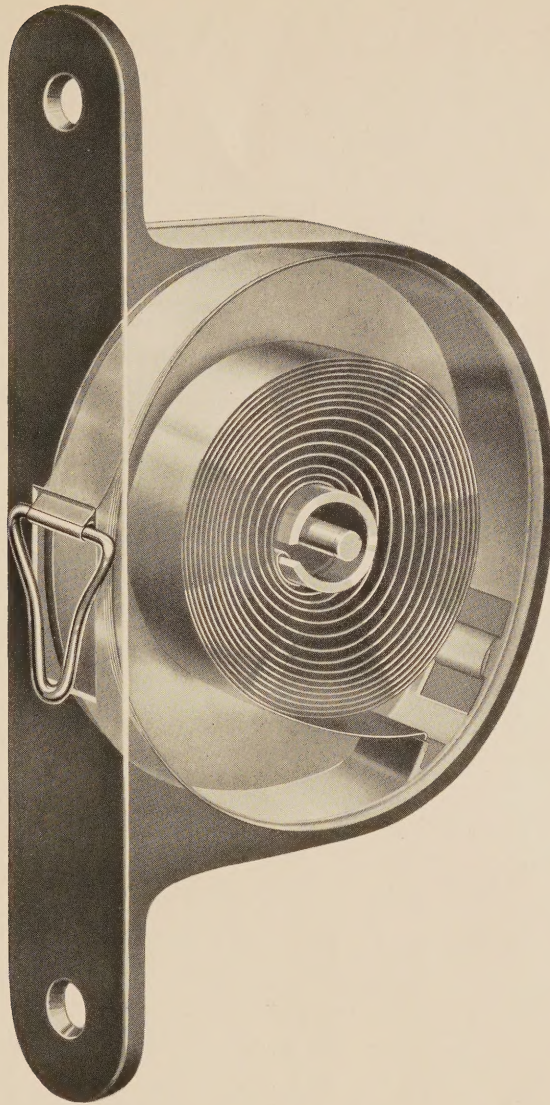


For concrete buildings we have provided a convenient and economical way of making the recess for the balances by means of a steel housing.

This housing is nailed or screwed to the back of the pulley stile, and when the frame is set into the wall, the concrete flows around the housing, embedding it in the mixture. Thus set, the housing not only provides a metal recess for the Balances, but helps to hold the window frame in place.

Price of Housing for UNIT K (a pair being required for each set of balances), net per pair 25 cents; for UNIT L, net per pair, 45 cents, and for UNIT M, 60 cents, net per pair.

PULLMAN MFG. COMPANY, ROCHESTER, N. Y.



This illustration shows the extreme simplicity of the Unit Sash Balance.

Please note that all the moving parts are encased. There is nothing to rub on the woodwork and it is equally impossible to interfere with the action of the spring by squeezing the balance in a tight mortise.

The Pullman Unit is the only balance having this feature. And we might add that by far the larger part of any trouble ever caused by Sash Balances has been due to forcing into tight mortises, making the moving parts bind.

The Pullman Unit is the perfect balance. You can consistently specify Pullman Units, knowing that they will give your clients longer service and quieter and better working windows than the old fashioned cords and weights.

PULLMAN MFG. COMPANY, ROCHESTER, N. Y.

AUG 1 1918

Specifications of Unit Sash Balances

Side and Top Pattern Balances are the same price. Side Pattern is always sent unless Top Pattern is Specified.

Unit K, for 4 to 32 lb. Sash

Bal. No.	Weight of each Sash (Pounds)	Length of Tape (Inches)	Code Word	Per Set of 4 Bal. for 2 Sash
0-K	4 to 5	30	Kale	\$2.00
1-K	6 to 7	30	Kalif	"
2-K	8 to 9	30	Kaolin	"
3-K	10 to 11	46	Keck	"
4-K	12 to 13	46	Kedge	"
5-K	14 to 15	46	Keel	"
6-K	16 to 17	46	Keg	"
7-K	18 to 19	46	Keep	"
8-K	20 to 21	46	Kern	"
9-K	22 to 23	46	Ketch	"
10-K Special	24 to 26	46	Key	\$2.50
11-K Special	27 to 29	46	Kick	"
12-K Special	30 to 32	46	Kidnap	"

Depth of Unit K Balance $3\frac{1}{2}$ "

Unit L, for 10 to 48 lb. Sash

Bal. No.	Weight of each Sash (Pounds)	Length of Tape (Inches)	Code Word	Per Set of 4 Bal. for 2 Sash
3-L	10 to 11	46	Label	\$3.50
4-L	12 to 13	46	Labor	"
5-L	14 to 15	46	Lace	"
6-L	16 to 17	46	Lack	"
7-L	18 to 19	46	Lactic	"
8-L	20 to 21	46	Lacona	"
9-L	22 to 23	46	Lactéal	"
10-L	24 to 26	54	Laddie	"
11-L	27 to 29	54	Lade	"
12-L	30 to 32	54	Lading	"
13-L	33 to 35	54	Ladle	"
14-L	36 to 38	54	Lady	"
15-L	39 to 41	54	Lag	"
16-L	42 to 44	54	Laggard	"
17-L	45 to 48	54	Lagging	"



Depth of Unit L Balance $4\frac{1}{2}$ "

Unit M, for 24 to 105 lb. Sash

Bal. No.	Weight of each Sash (Pounds)	Length of Tape (Inches)	Code Word	Per Set of 4 Bal. for 2 Sash
10-M	24 to 26	54	Mace	\$ 6.00
11-M	27 to 29	54	Machine	"
12-M	30 to 32	54	Mackerel	"
13-M	33 to 35	54	Madam	"
14-M	36 to 38	54	Madly	"
15-M	39 to 41	54	Madonna	"
16-M	42 to 44	54	Magic	"
17-M	45 to 48	54	Magnate	"
19-M	49 to 52	60	Magnet	\$ 7.50
21-M	53 to 56	60	Magnify	"
23-M	57 to 60	60	Magnolia	"
25-M	61 to 64	60	Magpie	"
27-M	65 to 68	60	Mahogany	"
29-M	69 to 72	60	Maiden	\$ 8.75
31-M	73 to 76	60	Mail	"
33-M	77 to 80	60	Maintain	"
35-M	81 to 84	60	Majestic	"
37-M	85 to 88	60	Major	\$10.00
39-M	89 to 92	60	Maker	"
41-M	93 to 96	60	Malady	"
43-M	97 to 100	60	Malice	"
45-M	101 to 105	60	Malign	"

Depth of Unit M Balance $5\frac{1}{4}$ "

How to Order

 Give weight of each Sash 

Unit K takes uniform mortise for 4 to 32 lb. Sash.

Unit L takes uniform mortise for 10 to 48 lb. Sash.

Unit M takes uniform mortise for 24 to 105 lb. Sash.

Weight is usually marked on sash at the mill. Generally the upper and lower sash weigh the same. If not, give weight of each and we will send half sets of proper size.

Caution

Do not estimate the weight of sash, but weigh each one on scales. There is much variation in the weight of sash of the same dimensions. Be sure that sufficient space is left for the balances. See blue print. Where there is not room for the Side pattern Balances, use the Top pattern, shown in blue print as applied to narrow mullions.

Finish

The face plates of Unit Balances are regularly finished in dull black lacquer.

When required, Unit Balances are furnished with solid bronze or brass face plates in UNIT "K" at \$1.10; Unit "L" at \$1.50 net per set in addition to regular price, and in UNIT "M" at \$1.95 net per set extra.

Electro-plated face plates—brass, bronze, nickel or copper, 45c net per set extra in UNIT "K," 55c in UNIT "L," and 75c net per set extra in UNIT "M."

Extra Length Tape

We can furnish any of the "Unit" Balances with tape longer than listed above, but this does not add to the run of the Balances. It only permits the Balances to be placed so much higher up or further away from the sash. When it is desired to move the sash a greater distance than the listed tape, "X-Raise" Balances should be ordered, prices and description of which will be sent upon request. See page 7.

PULLMAN MFG. COMPANY, ROCHESTER, N. Y.

Special Balances

This Catalogue is devoted especially to the UNIT Sash Balances for new buildings. We make many styles and sizes of Balances adapted for use on doors, windows or panels that raise and lower. We show several styles below. When in need of Balances for any purpose, write us for prices and sizes.

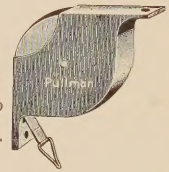


Extra Long Run Balances

For sleeping porch or other windows where both sashes drop below the sill; wardrobe doors tall windows; or windows, doors or panels of any kind where the travel is greater than the length of the tape of UNIT Sash Balances. Made for sash up to 48 pounds; both side and top pattern. Write for specifications and prices.

Corner Balances

These Balances do not require a mortise, being fitted in the upper corner of the window frame. They are therefore useful where a beam, column or other obstruction makes it impossible to use UNIT Balances. Corner Balances can be used only with lower sash. Write for prices.

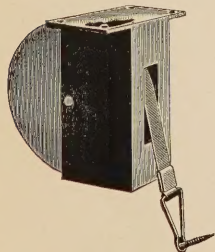


Marine Balances

These Balances are made of solid brass throughout, to withstand the action of salt water. They have the approval of the United States Government, and are used in many government Vessels, also Ferry Boats and Steam Boats. Made both side and top pattern. Write for prices.

Tandem Balances

These Balances are made for extra heavy sash and have capacity up to 200 pounds. As will be seen from the illustration, these balances are in reality double, having two springs instead of one. Both springs are connected to the tape. This construction not only gives a balance of increased capacity, but with a given depth from front to back, double the capacity of the ordinary balance is secured. Tandem Balances may therefore be used in many cases when there is not room for UNIT Balances. The Balances are made both side and top pattern. Write for prices and specifications.



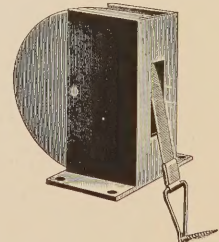
For Show Cases

Cabinet Balances

These Balances are especially designed for show cases and wall cases. The show case balance is for doors or panels that drop. These Balances are placed underneath the case.

The Balance for wall case is for doors that raise. This type of balance is applied to the top of the case.

All sizes up to 100 pounds. Write for specifications and prices.



For Wall Cases

PULLMAN MFG. COMPANY, ROCHESTER, N. Y.

"Pullman" Door Holder

Will hold swinging or other doors in any desired position by simply pressing the Bolt down with the foot. To release door, touch the release plate with the foot and the Bolt will spring automatically back into case.

Description

Frame—Cast Iron.

Case—Planned steel instead of cast iron as in ordinary bolts. This enables us to secure a high finish and makes the "Pullman" by far the handsomest door holder in the market.

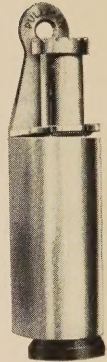
Design—Particularly attractive. There are no ears on the sides, the bolt being held in place on the door by a screw at the top and a concealed clamp plate at the bottom.

Rubber Foot—Holds firmly on carpet, wood or marble, and will not scratch or mar floor.

Overhang—About two inches when bolt is fully extended.

Price List

No.	Finish	Each
50	Dead black lacquer	\$1.00
51	Amber bronze	1.00
52	Antique Copper	1.50
53	Dull brass	1.50
54	Nickel plated	1.50
Solid Brass		
55	Dull brass	2.25
56	Nickel plated	2.50



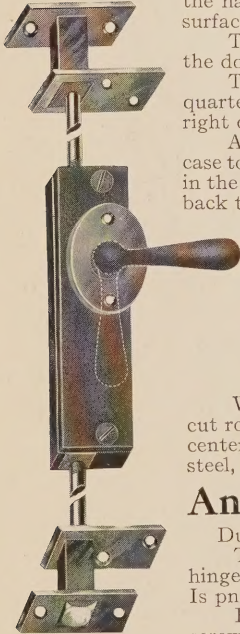
"Pullman" Mortise Extension Bolt

The "Pullman" Mortise Extension Bolt is entirely concealed, the only parts visible being the handle and escutcheon. This does away entirely with the objectionable features of the surface bolt.

The bolt lies in a groove and is covered with an astragal, attached to the meeting rail of the door or window containing the bolt.

The "Pullman" Double Extension Bolt locks the door at both top and bottom with one-quarter turn of the handle only, and is reversible. This permits the use of the bolt on either right or left hand doors or both.

Another advantage of this Bolt is the depth of backset or distance from front edge of bolt case to center of knob. This makes it possible to install the bolt by ploughing a shallow groove in the edge of the door, yet allowing the placing of knob near the center of rail and far enough back to clear the lap of the astragals.



No.	Trim	Finish	Price
546A	Lever Handle	Dull Brass	\$6.00 complete, with Rods
546B	"	Nickel Plated	6.00 " " "
547A	Oval Knob	Dull Brass	6.00 " " "
547B	"	Nickel Plated	6.00 " " "

Dimensions of Bolt Case: 5" x 1 1/4" x 5/8" thick

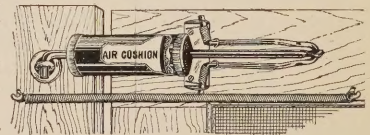
When given height of door or window, and distance from floor to center of handle, we cut rods to fit without extra charge. In the absence of instructions, we locate handle in the center and supply rods for 7'-6" doors. The connection rods being of 1/4" round cold rolled steel, it is a simple matter to adjust the length by cutting and re-threading the two rods.

Anti-Slam Screen Door Check

Dull Brass Finish Barrel and Nickel Finish Parts

To be used with any kind of door spring or spring hinge. Has adjusting screw to close door fast or slow. Is pneumatic and does not require any mortise.

Easily applied; can be put on by anyone with a screw driver. Can be placed on right or left hand screen door without any changing of parts.



Keeps Screen Doors from Slamming

May be unhooked and put away with screen door without taking out a single screw. Will last a lifetime. Price—50 cents.

"Pullman" Automatic Safety Razor Strop

"Hold Stropper against the Strop—and Strop."

The blade is clamped fast on a holder. On each side of the holder are two rollers bearing on the strop—making a flat surface to strop on. Strops all edges of Gillette blade without removing from holder.

The "Pullman" Strop is perfectly made and finished, never gets out of order, will last a lifetime, is small, compact, neat.

Price \$1.00

Important When Ordering

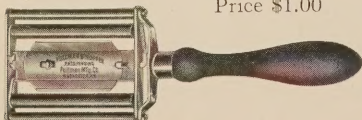
For "Gillette" order No. 1.

For "Keen Cutter" order No. 3.

For "Enders" order No. 6.

For "Gem, Jr.," "Ever Ready,"

"Diamond Edge," order No. 2.



UNIT "M"

UNIT "M" 5¼"

FULL SIZE

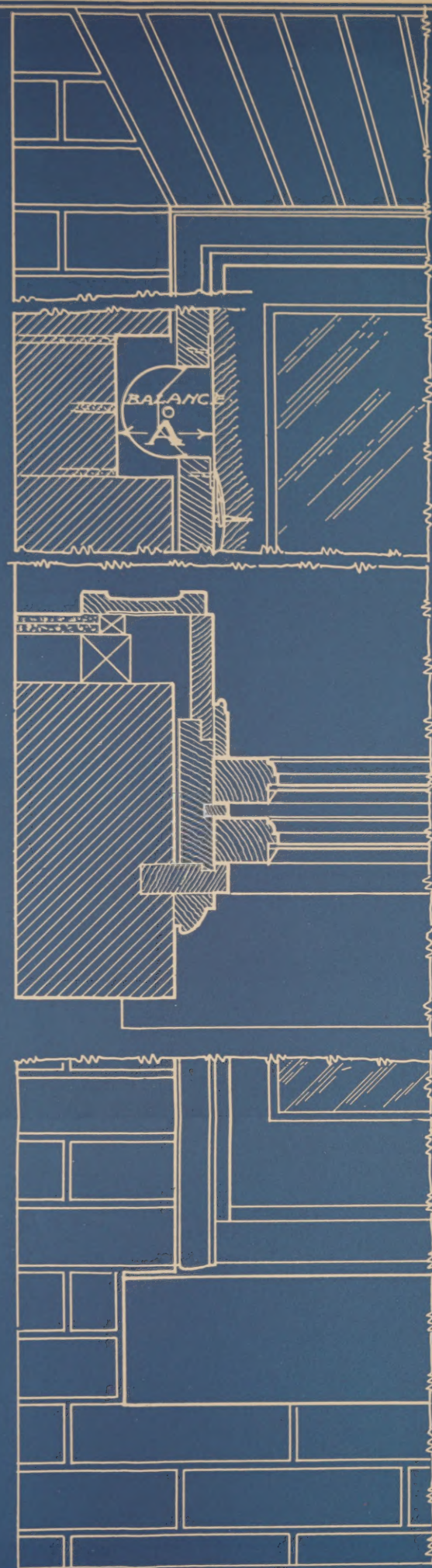
8¾"

*UNIT "M" FOR SASH
WEIGHING*

24 TO 105 LBS.

*FOR SASH
24 TO 105 LBS*

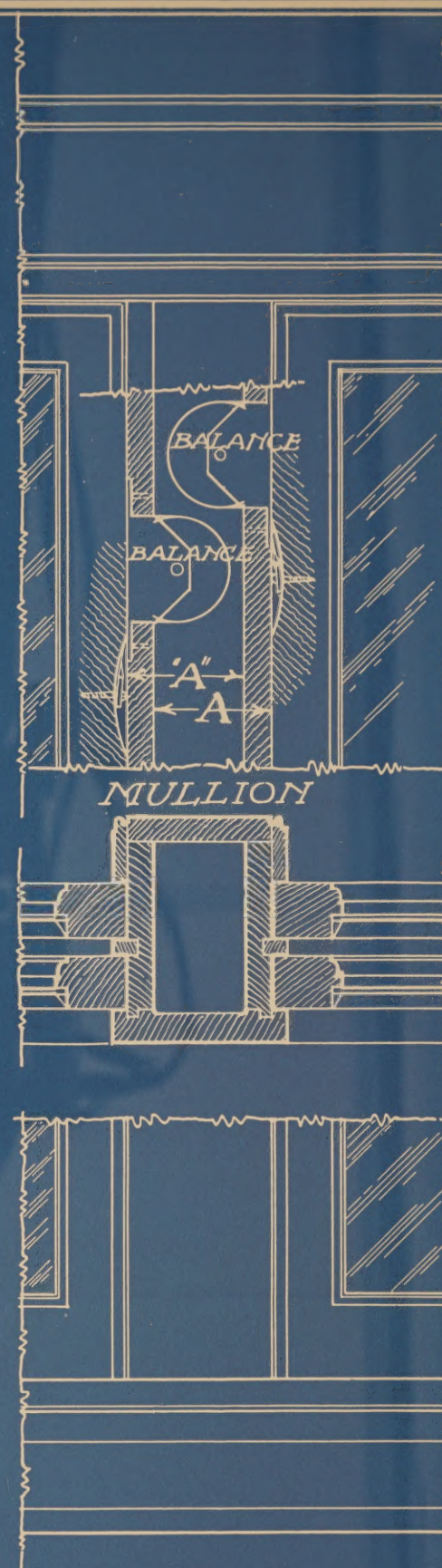
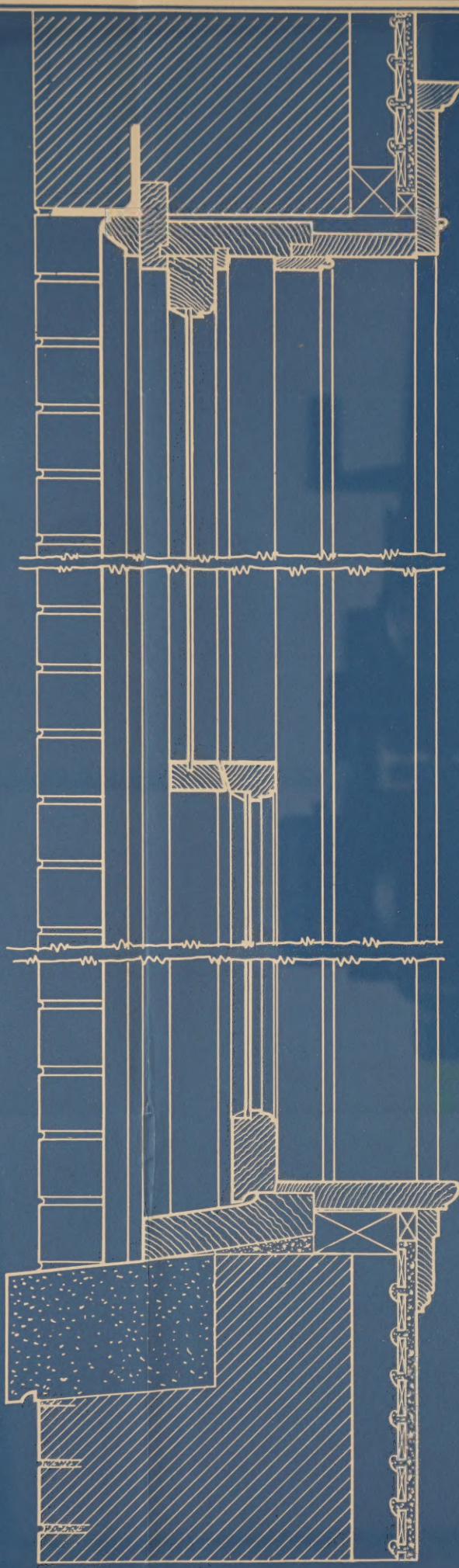
1¾"



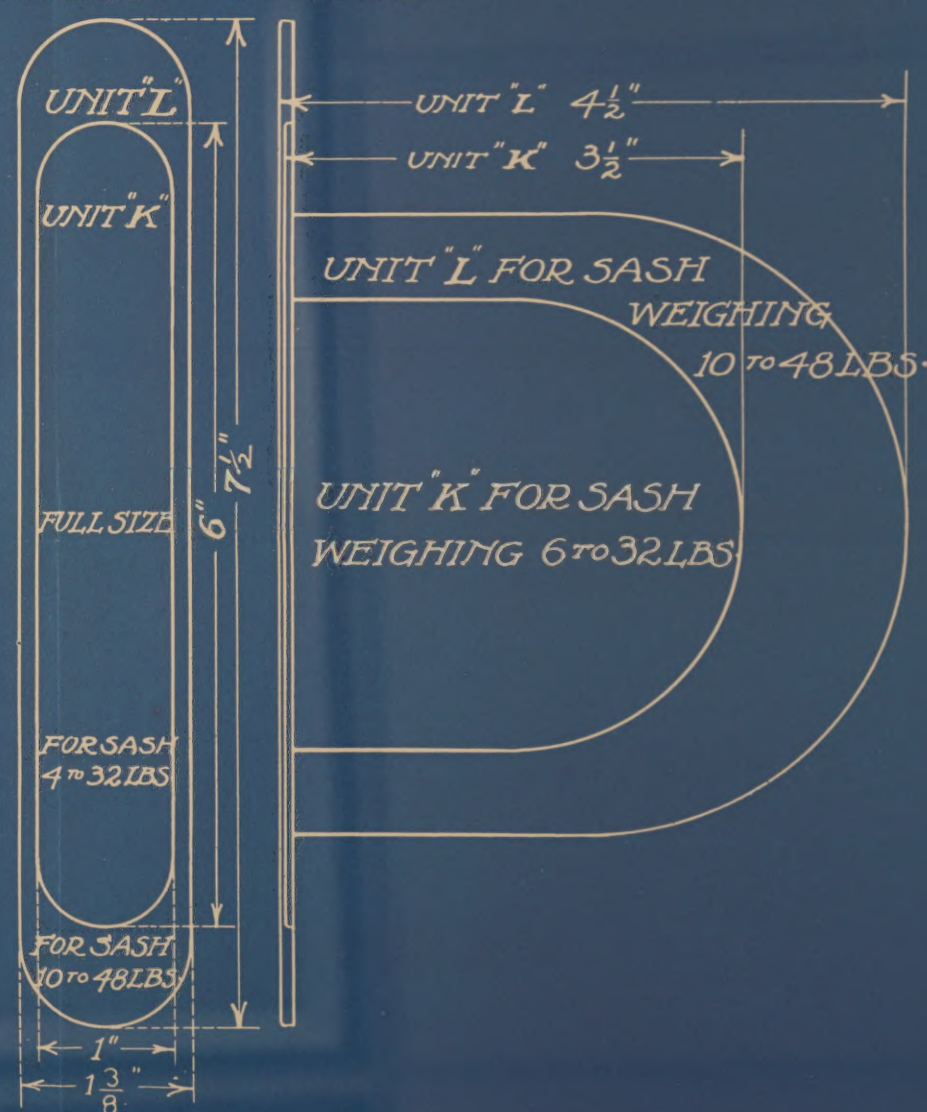
BRICK STONE WOOD LATH & PLASTER







MULLION NARROW MULLION



DIMENSION TABLE

	Unit	Depth at A
FOR SASH RANGING FROM 4 TO 32 LBS.	"K"	3½"
FOR SASH RANGING FROM 10 TO 48 LBS.	"L"	4½"
FOR SASH RANGING FROM 24 TO 105 LBS.	"M"	5¾"

DETAIL OF WINDOW FRAME FOR
PULLMAN SASH BALANCES

PULLMAN MFG. COMPANY
ROCHESTER, NEW YORK.

A Few Pullman Installations

Trussed-Concrete Steel Co.....	Factory Building	Youngstown, Ohio.
American Thermos Bottle Co.....	"	Norwich, Conn.
American Chicle Co.....	"	Rochester, N. Y.
Peck Stowe & Wilcox Co.....	"	Southington, Conn.
Webber Electric Co.....	"	Schenectady, N. Y.
Warner Bros. (Corsets).....	"	Bridgeport, Conn.
American Woolen Mills.....	"	Maynard, Mass.
U. S. Shoe Machinery Co.....	Office Building	Lynn, Mass.
Tri-State Telephone Co.....	"	Minneapolis, Minn.
High School.....	School Building	Dassel, Minn.
High School.....	"	Fergus Falls, Minn.
West Side High School.....	"	St. Paul, "
Central High School.....	"	Red Wing, "
High School.....	"	St. Cloud, "
Blossom St. School.....	"	Lynn, Mass.
High School.....	"	Mound City, Mo.
Linwood School.....	"	Winnipeg, Manitoba
Lynn English High School.....	"	Lynn, Mass.
School House.....	"	Dumont, Ill.
Alma College.....	"	St. Thomas, Ont.
Mt. St. Joseph Academy.....	"	Bridgeport, Conn.
Wilsonia Apartments.....	Apartment Building	Rochester, N. Y.
Jenkins Apartments.....	"	Rochester, N. Y.
Longfellow Apartments.....	"	Cambridge, Mass.
Normandy Apartments.....	"	Hartford, Conn.
Apartments—1218 Hyde Pk. Blvd.....	"	Chicago, Ill.
" Greenleaf Ave.....	"	Chicago, Ill.
Apartments—Kedzee & Haddon Ave.....	"	Chicago, Ill.
" 530 Marquette Road.....	"	Chicago, Ill.
Catholic Orphanage.....	Public Buildings	Marquette, Mich.
Hotel Tecumseh.....	"	London, Ont.
Iola Sanitarium.....	"	Rochester, N. Y.
Rochester Free Dental Dispensary.....	"	" "
Cumberland Block.....	"	Winnipeg, Man.
Cook Building.....	"	Portland, Ore.
Calvary Baptist Church.....	"	Charleston, W. Va.
W. W. Bissell.....	Residence	Rochester, N. Y.
F. W. VanBerg.....	"	" "
Alfred Wright.....	"	" "

